Classification NN

Determining almond variant

Last column shows real classification

## Steps needed:

* Preprocess data
  + Missing values
  + Ranges
  + What impact do derived features have on missing values
* Optimise NN hyperparameters
  + - Architecture
    - Activation functions
    - Error/loss function
    - Training algorithm
  + Reasoning for selection must be given:
    - Theoretical insight
    - Empirical evidence
  + Compare ATLEAST two hyperparameters
  + Grid search
* Comparative study
  + Different gradient
  + At least 2
    - One must be Resilient backpropagation (rprop)
* Hybrid learning approach
  + Multiple algorithms
  + Used to derive weights using average of weight update values

Jupyter notebook

* Python libraries are allowed

Github repo containing Jupyter notebook is REQUIRED